

7TH GRADE SCIENCE

How can we use science and engineering practices to explore chemical reactions, geoscience processes, ecosystems, and Earth's natural resources?

THE 5 UNITS

Unit 0: Groupwork

How do we work productively in groups?

Groupwork is an instructional strategy that helps promote equitable classrooms, provide opportunities for student interactions, and increase science discussions to improve student learning.



Groupwork

Unit 1: Chemical Reactions

How can we combine two substances to make a hot pack or a cold pack?

In this unit, students learn to identify when a chemical reaction has occurred and model the change in molecular structure of materials showing that the number and type of atoms (mass) are conserved in a reaction.



Chemical Reactions

Unit 2: Geoscience Processes and Earth's Surface

How can we use our knowledge of geoscience processes to mitigate the effects of earthquakes?

In this unit, students consider how geoscience processes have shaped Earth's surface over time.



Geoscience Processes & Earth's Surface

Unit 3: Ecosystems

What effects does a change to an ecosystem have on the organisms that live there?

In this unit, students explore how changes in an ecosystem impact local populations of organisms, the flow of energy, and the cycling of matter in that ecosystem.



Ecosystems

Unit 4: Earth's Natural Resources

What materials should be used to make utensils for SFUSD cafeterias?

In this unit, students explore where natural resources can be found and how these resources are not found in equal amounts around the planet.



Earth's Natural Resources